

## BIBLIOGRAPHY.

## RECENT ADDITIONS TO THE WEATHER BUREAU LIBRARY.

C. FITZHUGH TALMAN, Professor in Charge of Library.

The following have been selected from among the titles of books recently received as representing those most likely to be useful to Weather Bureau officials in their meteorological work and studies:

**Aichi, Keiichi.**

On the distribution of wind velocity when abnormal propagation of sound occurs. Appendix: On the velocity of sound propagation in windy atmosphere. [Tokyo, 1920.] p. 63-69. 26 cm. (Reprint, Phys.-math. soc. of Japan, Proceedings, Tokyo. 3d ser., v. 2, no. 4, 1920.)

On the new method of reduction of observations of underground temperature. [Tokyo, 1918.] p. 2-7. 26 cm. (Reprint, Phys.-math. soc. of Japan, Proceedings, Tokyo. 3d ser., v. 1, no. 1, 1918.)

On the theory of mirage. [Tokyo, 1920.] p. 130-136. 26 cm. (Reprint, Phys.-math. soc. of Japan, Proceedings, Tokyo. 3d ser., v. 2, no. 6, 1920.)

**Ångström, Anders.**

Nocturnal radiation measurements as means of evaluating the water content of the clear atmosphere and their relation to synoptic weather. [Stockholm, 1921.] p. 183-188. 24 cm.

Recent investigations relating to the solar constant and some remarks to the same. [Stockholm, 1920.] 6 p. 24 cm.

**Daingerfield, Lawrence Hite.**

The place of meteorology in education. [Excerpt, Pan-Pacific union, First Pan-Pacific educational conference, Honolulu, 1921. Program and proceedings, p. 152-157.]

**Kassner, Carl.**

Gerichtliche und Verwaltungs-Meteorologie. Berlin. 1921. 208 p. 23 cm.

**Livingston, Burton E., & Shreve, Forrest.**

Distribution of vegetation in the United States, as related to climatic conditions. Washington, 1921. 585 p. 25 $\frac{1}{2}$  cm. (Carnegie institution of Washington. Pub. 284.)

**Mascart, Jean.**

Sur l'établissement des moyennes en météorologie. [Paris, 1921.] 3 p. 27 cm. (Extrait, Acad. des science, Comptes rendus, Paris. t. 173, 1921, p. 94.)

**Nelson, Edward W.**

Lower California and its natural resources. Washington. 1921. 194 p. 31 cm. (National acad. of sciences, v. 16, First memoir.) [Includes notes on climate.]

**U. S. Signal corps. Meteorological service.**

Air soundings. [Mimeo graph, Nov. 1, 1921.] 16 p. 27 cm. Reduction of upper-air observations. [Mimeo graph, Nov. 1, 1921.] n. p. charts. 27 cm.

**Vercelli, Francesco.**

Sulla dinamica delle oscillazioni barometriche. [Montecassino, 1921.] 14 p. 27 cm. (Estratto de la Meteorologia pratica, Montecassino. no. 3/4.)

**Vestea, Alfonso di.**

La pioggia considerata sopra piani verticali orientati. Biella. 1916. 11 p. 33 cm. (Estratto dalla Revista di ingegneria sanitaria e di edilizia moderna, Torino. Anno 12, 1916, no. 22/23.)

**Vialay, Alfred.**

Contribution à l'étude des relations existant entre les circulations atmosphériques, l'électricité atmosphérique et le magnétisme terrestre. Paris. 1920. 204, 14 p. 24 $\frac{1}{2}$  cm.

**Vujević, P.**

[Coup d'œil sur l'origine, les rapports, l'importance et les buts de la climatologie.] [Excerpt from Soc. de géographie de Belgrade, Bulletin, v. 5, 1921. p. 53-67.] [Text in Serbian.]

## RECENT PAPERS BEARING ON METEROLOGY AND SEISMOLOGY.

C. F. TALMAN, Professor in Charge of Library.

The following titles have been selected from the contents of the periodicals and serials recently received in the Library of the Weather Bureau. The titles selected are of papers and other communications bearing on meteorology and cognate branches of science. This is not a complete index of all the journals from which it has been compiled. It shows only the articles that appear to

the compiler likely to be of particular interest in connection with the work of the Weather Bureau.

*Annalen der Hydrographie und maritimen Meteorologie.* Berlin. 49 Jahrg. 1921.

**Seilkopf, Heinrich.** Der Witterungsverlauf in Norddeutschland beim Vorübergang barometrischer Teildepressionen. p. 145-160. (H. 5.)

**Köppen, W.** Das Verhältnis zwischen Temperatur, Luftgehalt und Planktonmenge im Weltmeere. p. 197-200. (H. 6.)

**Schmidt, Wilhelm.** Georg Wüst, die Verdunstung auf dem Meere. Nebst Bemerkungen über den Wasserhaushalt der Erde. p. 190-196. (H. 6.)

*Archives des sciences physiques et naturelles.* Genève. v. 3. Sept.-oct., 1921.

**Bieler-Butticaz.** Variation d'intensité du son pour différentes conditions atmosphériques à la montagne en hiver. p. 548-550.

*Ariation and aircraft journal.* N. Y. v. 11. Oct. 31, 1921.

**Upson, Ralph.** Lessons of the Gordon Bennett balloon race. p. 502-503. [Discusses meteorological features.]

*France. Académie des sciences. Comptes rendus.* Paris. T. 173. 1921.

**Mascart, Jean.** Sur la prévision du temps à long terme. p. 419-421. (22 août.)

**Fabry, Louis.** Sur l'onde atmosphérique produite par l'explosion des usines d'Oppau. p. 567-568. (10 oct.)

**Brazier, C.-E.** La résistance de l'air au mouvement des sphères et la vitesse ascensionnelle des ballons pilotes. p. 644-646. (17 oct.)

*Jahrbuch der Radioaktivität und Elektronik.* Leipzig. Bd. 18. H. 1. 1921.

**Schweidler, E. v.** Zusammenfassender Bericht über luftelektrische Beobachtungen in Seeham (Salzburg) und in Innsbruck. p. 1-21.

*Meteorological magazine.* London. v. 56. 1921.

**Clarke, G. A.** Optical phenomena at Aberdeen June 13th, 1921. p. 192-193. [With drawing.] (Aug.)

Deficient rainfall. p. 177-180. (Aug.)

**Jeffreys, Harold.** Shape of the sky. p. 173-177. (Aug.)

Mercury barometer for airships. p. 193-194. (Aug.)

**Dines, L. H. G.** Visibility. p. 250-251. (Oct.)

**Durward, J.** Comparison between the double theodolite and tail methods of obtaining the height of pilot balloons. p. 257-259. (Oct.)

Effect of salt spray on the ordinary wet-bulb thermometer at Valencia observatory. p. 260-261. (Oct.)

**Gatty, Victor H.** Visibility. p. 251-252. (Oct.)

Loss of the airship N. S. 3. p. 241-245. [Meteorological conditions.] (Oct.)

*Meteorologische Zeitschrift.* Braunschweig. Bd. 38. Sept. 1921.

**Baur, Franz.** Ein Beitrag zur praktischen Anwendung der Korrelationsmethode. p. 279.

**Defant, A.** Messungen der atmosphärischen Turbulenz und Energiesatz bei atmosphärischen Turbulenzwirbeln. p. 268-274.

**Ficker, Heinrich.** Ergebnisse meteorologischer Beobachtungen in Husseinabad (Persien, Seistan). p. 257-262.

**Galbas, P. A.** Über die Verwendbarkeit von Dunstbeobachterungen für die Prognose. p. 277-278.

**Grundmann, G.** Zur Häufigkeit der Halophänomene. p. 274-276.

**Linke, Franz.** Niederschlagsmessungen unter Bäumen. p. 277.

**Mazelle,** Über die Windverhältnisse in den höheren Luftschichten nach den Pilotierungen in Triest. p. 281-282.

**Prohaska, Karl.** Klimaänderung innerhalb der letzten Jahrhunderte in Steiermark? p. 285-286.

**Sapper, Karl.** Regenfall in den Republiken Guatemala und El Salvador in den Jahren 1908 bis 1920. p. 279-281.

**Schmidt, Wilhclm.** Wird die Atmosphäre durch Konvektion von der Erdoberfläche her erwärmt? p. 262-268.

*Nature.* London. v. 108. 1921.

International meteorological committee. [Report of meeting, London, Sept. 12-17, 1921.] p. 194-195. (Oct. 6.)

**Visser, S. W.** Green colouring of surf on the horizon. p. 178-179. (Oct. 6.)

**Shaw, Napier.** Dr. Julius Hann. p. 249-251. [Obituary.] (Oct. 20.)

**Cortie, A. L.** Aurora borealis, terrestrial magnetic disturbances, and sun-spots. p. 272. (Oct. 27.)

**Lowndes, A. G.** Methods of improving visibility. p. 337. (Nov. 10.)

*Nature.* Paris. 49 année. 1921.

**Blinn, Henri.** Comment préserver les couvées des effets de la foudre. p. 112. (8 oct.)

**Effère.** Phénomènes naturels. (Notes de voyage d'un ingénieur.) Les orages. p. 228-229. (8 oct.)

**Schereschewsky, Ph.** Le sondage aérien par le son. p. 259-262. (22 oct.)